Civil Engineering Database Subject Heading Index

The **Civil Engineering Database (CEDB)** is designed to provide free, easy bibliographic access to all ASCE publications. The database covers ASCE documents published since 1970. It provides access to all the journals, conference proceedings, books, standards, manuals, magazines, and newspapers. The index terms below were assigned to papers published in this journal during 2003 from a CEDB subject heading list. The CEDB and subject heading list can be accessed on the Web at *http://www.pubs.asce.org/cedbsrch.html*.

Acoustic detection
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Anchors
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Bearing capacity
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. —L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. —D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Bending moments
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Boundary element method
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).

Calibration
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Clays
Viscosity Effects on One-Dimensional Consolidation of Clay. —Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Numerical Parametric Study of Piezocone Penetration Test in Clays. —Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).

Cohesive soils
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Compressibility
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Computation
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. — D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Concrete
Direct Shear Test of Sandstone-Concrete Joints. — Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Consolidation
Viscosity Effects on One-Dimensional Consolidation of Clay. — Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Constitutive equations
Volumetric Deformation of Natural Clays. — M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).

Constitutive models
Constitutive Model for Static Liquefaction. —Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Contaminants
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).

Cracking
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Curvature
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Damage
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Deep foundations
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Deformation
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Displacement
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Disturbance
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Drainage
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).

Elastoplasticity
Constitutive Model for Static Liquefaction. — Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Erosion
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. —Donatella Sterpi; 3(1), 111-22 (2003).

Excavation
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Fabrics
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Failure modes
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. —L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).

Failures
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. —Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Finite element method
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Fissures
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).

Civil Engineering Database Subject Heading Index

The **Civil Engineering Database (CEDB)** is designed to provide free, easy bibliographic access to all ASCE publications. The database covers ASCE documents published since 1970. It provides access to all the journals, conference proceedings, books, standards, manuals, magazines, and newspapers. The index terms below were assigned to papers published in this journal during 2003 from a CEDB subject heading list. The CEDB and subject heading list can be accessed on the Web at *http://www.pubs.asce.org/cedbsrch.html*.

Acoustic detection
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Anchors
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Bearing capacity
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. —L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. —D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Bending moments
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Boundary element method
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).

Calibration
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Clays
Viscosity Effects on One-Dimensional Consolidation of Clay. —Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Numerical Parametric Study of Piezocone Penetration Test in Clays. —Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).

Cohesive soils
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Compressibility
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Computation
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. — D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Concrete
Direct Shear Test of Sandstone-Concrete Joints. — Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Consolidation
Viscosity Effects on One-Dimensional Consolidation of Clay. — Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Constitutive equations
Volumetric Deformation of Natural Clays. — M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).

Constitutive models
Constitutive Model for Static Liquefaction. —Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Contaminants
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).

Cracking
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Curvature
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Damage
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Deep foundations
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Deformation
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Displacement
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Disturbance
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Drainage
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).

Elastoplasticity
Constitutive Model for Static Liquefaction. — Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Erosion
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. —Donatella Sterpi; 3(1), 111-22 (2003).

Excavation
Curvature and Bending Moments from Inclinometer Data. —P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Fabrics
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Failure modes
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. —L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).

Failures
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. —Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Finite element method
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Fissures
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).

Footings
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. — L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. — D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Friction
Numerical Parametric Study of Piezocone Penetration Test in Clays. — Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).

Geomaterials
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).
General Strength Criterion for Geomaterials. — M. D. Liu and J. P. Carter; 3(2), 253-9 (2003).

Heterogeneity
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. —R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Hydraulic conductivity
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. —George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Imaging techniques
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Intakes
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).

Isotropy
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).

Joints
Direct Shear Test of Sandstone-Concrete Joints. —Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Landslides
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. —Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).

Limit equilibrium
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. —D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. —Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Liquefaction
Constitutive Model for Static Liquefaction. —Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Loads
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. — L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).

Material properties
General Strength Criterion for Geomaterials. — M. D. Liu and J. P. Carter; 3(2), 253-9 (2003).

Measurement
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Mechanical properties
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Microstructure
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Mixtures
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. —George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Models
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Numerical analysis
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. —L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. —Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Numerical models
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. —R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).
Numerical Parametric Study of Piezocone Penetration Test in Clays. —Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).

Offshore structures
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Parameters
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Particles
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).

Penetration tests
Numerical Parametric Study of Piezocone Penetration Test in Clays. — Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. — George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Plane strain
Constitutive Model for Static Liquefaction. — Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Plastic analysis
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. — Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Pore pressure
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. —George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Porosity
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Non-equilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).

Porous materials
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Porous media
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).

Potential flow
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).

Pressures
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Probability
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. —Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).

Reliability analysis
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. —Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Remedial action
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Nonequilibrium Partitioning. — Abbas Elzein; 3(2), 182-90 (2003).
Rock masses
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. — Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. — Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).
Rocks
Failure Process of Granite. — L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).
Safety factors
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).
Sand
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).
Sandstone
Direct Shear Test of Sandstone-Concrete Joints. — Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).
Scale effect
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. — Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).
Seepage
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).
Shear strength
General Strength Criterion for Geomaterials. — M. D. Liu and J. P. Carter; 3(2), 253-9 (2003).
Shear tests
Direct Shear Test of Sandstone-Concrete Joints. — Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).
Silty soil
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).
Simulation
Volumetric Deformation of Natural Clays. — M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).
Slope stability
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. — Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).
Soil moisture
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).
Soil nailing
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).
Soil pollution
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. — Abbas Elzein; 3(1), 75-83 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Nonequilibrium Partitioning. — Abbas Elzein; 3(2), 182-90 (2003).
Soil properties
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. — R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).
Soil suction
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. — Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).
Statistical analysis
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).
Stiffness
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. — Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).
Strength
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).
Surface waves
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. — R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).
Tunnels
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).
Viscosity
Viscosity Effects on One-Dimensional Consolidation of Clay. — Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Void ratio
Viscosity Effects on One-Dimensional Consolidation of Clay. — Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).
Volumetric strain
Volumetric Deformation of Natural Clays. — M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
Walls
Curvature and Bending Moments from Inclinometer Data. — P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).
Water infiltration
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. — Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).
Yield
Viscosity Effects on One-Dimensional Consolidation of Clay. — Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).

Author Index

Abraham, O.
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. —R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Abu-Farsakh, Murad
Numerical Parametric Study of Piezocone Penetration Test in Clays. —Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).

Aubeny, Charles
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Boukpeti, N.
Constitutive Model for Static Liquefaction. —Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Carter, J. P.
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
General Strength Criterion for Geomaterials. —M. D. Liu and J. P. Carter; 3(2), 253-9 (2003).

Carter, John P.
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Castelli, Marta
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. —Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).

Cen, Zhangzhi
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Chammas, R.
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. —R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Chen, Z. H.
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Collins, I. F.
Closure to "Associated and Nonassociated Aspects of the Constitutive Laws for Coupled Elastic/Plastic Materials" by I. F. Collins. —I. F. Collins; 3(1), 130-1 (2003).

Cote, P.
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. —R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Desai, Chandra S.
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Dewaikar, D. M.
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. — D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Drescher, A.
Constitutive Model for Static Liquefaction. — Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Einav, I.
Discussion of "Associated and Nonassociated Aspects of the Constitutive Laws for Coupled Elastic/Plastic Materials" by I. F. Collins. — A. M. Puzrin and I. Einav; 3(1), 129 (2003).

Elzein, Abbas
Contaminant Transport in Fissured Soils by Three-Dimensional Boundary Elements. —Abbas Elzein; 3(1), 75-83 (2003).
Multiple-Porosity Model for the Transport of Reactive Contaminants in Fissured Soils with Nonequilibrium Partitioning. —Abbas Elzein; 3(2), 182-90 (2003).

Fityus, Stephen G.
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Genevois, Rinaldo
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. —Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).

Gu, Xue F.
Direct Shear Test of Sandstone-Concrete Joints. —Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Haberfield, Chris M.
Direct Shear Test of Sandstone-Concrete Joints. —Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Han, Seung-Woon
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Hawlader, Bipul C.
Viscosity Effects on One-Dimensional Consolidation of Clay. —Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).

Imai, Goro
Viscosity Effects on One-Dimensional Consolidation of Clay. —Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).

Jackson, C.
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. — L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).

Jade, Sridevi
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).

Lee, P. K. K.
Failure Process of Granite. — L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Lee, Peter Kai Kwong
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Li, Jie
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Li, L.
Failure Process of Granite. —L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Liu, M. D.
Volumetric Deformation of Natural Clays. —M. D. Liu and J. P. Carter; 3(2), 236-52 (2003).
General Strength Criterion for Geomaterials. —M. D. Liu and J. P. Carter; 3(2), 253-9 (2003).

Liu, Martin D.
Modeling Compression Behavior of Structured Geomaterials. — Martin D. Liu, John P. Carter, and Chandra S. Desai; 3(2), 191-204 (2003).

Mohapatro, B. G.
Computation of Bearing Capacity Factor N_γ—Terzaghi's Mechanism. —D. M. Dewaikar and B. G. Mohapatro; 3(1), 123-8 (2003).

Mróz, Z.
Constitutive Model for Static Liquefaction. —Z. Mróz, N. Boukpeti, and A. Drescher; 3(2), 133-44 (2003).

Muhunthan, Balasingam
Viscosity Effects on One-Dimensional Consolidation of Clay. —Bipul C. Hawlader, Balasingam Muhunthan, and Goro Imai; 3(1), 99-110 (2003).

Murff, James D.
Suction Caisson Capacity in Anisotropic, Purely Cohesive Soil. —Charles Aubeny, Seung-Woon Han, and James D. Murff; 3(2), 225-35 (2003).

Ooi, P. S. K.
Curvature and Bending Moments from Inclinometer Data. — P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Pedersen, H. A.
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. — R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Potts, D. M.
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. — L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).

Puzrin, A. M.
Discussion of "Associated and Nonassociated Aspects of the Constitutive Laws for Coupled Elastic/Plastic Materials" by I. F. Collins. — A. M. Puzrin and I. Einav; 3(1), 129 (2003).

Ramsey, T. L.
Curvature and Bending Moments from Inclinometer Data. — P. S. K. Ooi and T. L. Ramsey; 3(1), 64-74 (2003).

Romeo, Roberto W.
Probability of Failure Occurrence and Recurrence in Rock Slopes Stability Analysis. — Rinaldo Genevois and Roberto W. Romeo; 3(1), 34-42 (2003).

Saetta, Valeria
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. — Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).

Scavia, Claudio
Numerical Study of Scale Effects on the Stiffness Modulus of Rock Masses. — Marta Castelli, Valeria Saetta, and Claudio Scavia; 3(2), 160-9 (2003).

Seidel, Julian P.
Direct Shear Test of Sandstone-Concrete Joints. — Xue F. Gu, Julian P. Seidel, and Chris M. Haberfield; 3(1), 21-33 (2003).

Selvadurai, A. P. S.
Intake Shape Factors for Entry Points in Porous Media with Transversely Isotropic Hydraulic Conductivity. — A. P. S. Selvadurai; 3(2), 152-9 (2003).

Semblat, J. F.
Characterization of Heterogeneous Soils Using Surface Waves: Homogenization and Numerical Modeling. — R. Chammas, O. Abraham, P. Cote, H. A. Pedersen, and J. F. Semblat; 3(1), 55-63 (2003).

Sheng, Daichao
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Sitharam, T. G.
Characterization of Strength and Deformation of Jointed Rock Mass Based on Statistical Analysis. — Sridevi Jade and T. G. Sitharam; 3(1), 43-54 (2003).

Smith, David W.
Numerical Analysis of Neutron Moisture Probe Measurements. — Jie Li, David W. Smith, Stephen G. Fityus, and Daichao Sheng; 3(1), 11-20 (2003).

Song, Chung R.
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. — George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Sterpi, Donatella
Effects of the Erosion and Transport of Fine Particles due to Seepage Flow. — Donatella Sterpi; 3(1), 111-22 (2003).

Swoboda, Gunter
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Tang, C. A.
Failure Process of Granite. — L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Tham, L. G.
Failure Process of Granite. — L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Tham, Leslie George
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Tsui, Y.
Failure Process of Granite. — L. Li, P. K. K. Lee, Y. Tsui, L. G. Tham, and C. A. Tang; 3(1), 84-98 (2003).

Tsui, Yuet
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Tumay, Mehmet
Numerical Parametric Study of Piezocone Penetration Test in Clays. — Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).

Voyiadjis, George
Numerical Parametric Study of Piezocone Penetration Test in Clays. — Murad Abu-Farsakh, Mehmet Tumay, and George Voyiadjis; 3(2), 170-81 (2003).

Voyiadjis, George Z.
Determination of Hydraulic Conductivity Using Piezocone Penetration Test. — George Z. Voyiadjis and Chung R. Song; 3(2), 217-24 (2003).

Wang, Zhichao
Disturbed State Model for Porous Saturated Materials. — Chandra S. Desai and Zhichao Wang; 3(2), 260-5 (2003).

Xiang, Zhihai
Optimal Layout of Displacement Measurements for Parameter Identification Process in Geomechanics. — Zhihai Xiang, Gunter Swoboda, and Zhangzhi Cen; 3(2), 205-16 (2003).

Yang, Yuwen
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Yeung, M. R.
Numerical Simulation on Damage and Failure of Brittle Rocks under Different Confining Pressures. — Z. H. Chen, L. G. Tham, M. R. Yeung, and P. K. K. Lee; 3(2), 266-73 (2003).

Yuan, Jian-Xin
New Approach to Limit Equilibrium and Reliability Analysis of Soil Nailed Walls. — Jian-Xin Yuan, Yuwen Yang, Leslie George Tham, Peter Kai Kwong Lee, and Yuet Tsui; 3(2), 145-51 (2003).

Zdravković, L.
Numerical Study of the Effect of Preloading on Undrained Bearing Capacity. — L. Zdravković, D. M. Potts, and C. Jackson; 3(1), 1-10 (2003).